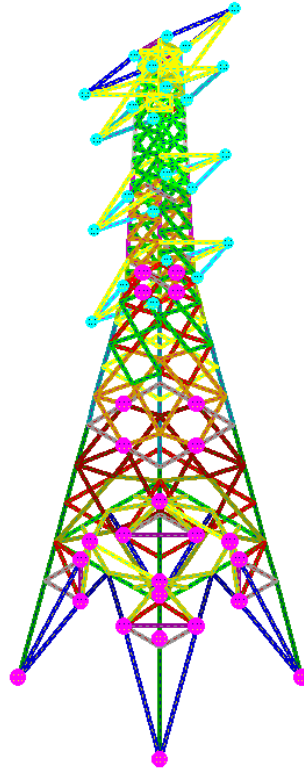


Comparison between Sargon (V8.42), NXNASTRAN and NEiNASTRAN					
TEST 23	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK			Marco Croci	10/02/2008



	Sargon (Clever)	NXNASTRAN	% err	NEiNASTRAN	% err
Model Name	tes23.WSR	tes23000.dat		tes23.NAS	
Output file	tes23.CEN	tes23000.f06		tes23.OUT	
Q1	1,187E+02	1,187E+02	-0,02	1,187E+02	-0,02
Q2	1,621E+01	1,621E+01	-0,01	1,621E+01	-0,01
Q3	-5,181E+05	-5,181E+05	-0,01	-5,181E+05	-0,01
Q4	1,069E+06	1,069E+06	0,01	1,069E+06	0,01
Q5	5,119E+05	5,119E+05	0,01	5,119E+05	0,01

Compared Values:

Q1 = Load Set 1 - Node 159 - Dz
 Q2 = Load Set 7 - Node 158 - Dx
 Q3 = Load Set 3 - Element Beam 28 - Axial Force (End 1)
 Q4 = Load Set 5 - Element Beam 26 - Moment z (End 1)
 Q5 = Load Set 6 - Node 38 - Force Tz on Constraint

Translations: [mm] Forces: [N] Moments [Nmm]

% err is computed between Sargon and NX and between Sargon and NEi (see introduction).
 NXNASTRAN and NEiNASTRAN values are rounded up to 4 significant digits; in some cases
 sign of moment value is changed in order to use the same Sargon rule.